## 4.5    Detailed Syllabus of BCA 5<sup>th</sup> Semester

**1. BCS-051:    Introduction to Software Engineering        3 Credits**

Objectives:

After studying the course, the student should:
(a)  Be able to develop SRS as per any of the existing standards
(b)  Know various Function and Object oriented modeling & design techniques
(c)  Know various testing techniques
(d)  Know different Software Development Life Cycle models
(e)  Know the concepts of Software Project Management

### Block-1: Development of SRS

**Unit-1: Characteristics of SRS**
Completeness, Unambiguity, Inconsistency, IEEE SRS

**Unit-2: Function oriented Modeling**
DFD, ERD, Structure Chart, SRS, Data Dictionaries

**Unit-3: Object Oriented Modeling**
UML Introduction, Use Case Diagrams, Class Diagrams

### Block-2: Design and Testing

**Unit-1: Function Oriented Design**
Constructing solution to problem, Identifying components and their interaction, Visualizing the solution, Characteristics of a good function oriented design (Coupling, Cohesion etc.)

**Unit-2: Object Oriented Design**
Identification & Specification problem domain static objects, Working out the application logic objects, Identification of necessary utility objects, Methodology of identification of objects, Case Study

**Unit-3: Testing Techniques**
Different testing techniques with examples

**Unit-4: Development and Execution of test cases**
Debugging, Testing tools & Environments, Types of test cases and test plans

### Block-3: Software Engineering Concepts
**Unit-1: Software Development Models**
Program vs Software ,Definition of Software Engineering, SDLC models

**Unit-2: Software Project Management Concepts**
Planning, Execution, Monitoring, Control of Software Projects, Software Metrics, Application of PERT and GANTT charts

**Unit-3: Software Engineering Fundamentals**
Software Configuration Management, Software Maintenance, Software Quality Assurance

# Software Engineering 2 Bcs

C. Godart,F. Charoy

**Software Engineering 2 Bcs:**

   **Issues in Software Engineering Education** Richard Fairley,Peter Freeman,2012-12-06 This volume combines the proceedings of the 1987 SEI Conference on Software Engineering Education held in Monroeville Pennsylvania on April 30 and May 1 1987 with the set of papers that formed the basis for that conference The conference was sponsored by the Software Engineering Institute SEI of Carnegie Mellon University SEI is a federally funded research and development center established by the United States Department of Defense to improve the state of software technology The Education Division of SEI is charged with improving the state of software engineering education This is the third volume on software engineering education to be pub lished by Springer Verlag The first Software Engineering Education Needs and Objectives edited by Tony Wasserman and Peter Freeman was published in 1976 That volume documented a workshop in which educa tors and industrialists explored needs and objectives in software engineering education The second volume Software Engineering Education The Educational Needs of the Software Community edited by Norm Gibbs and Richard Fairley was published in 1986 The 1986 volume contained the proceedings of a limited attendance workshop held at SEI and sponsored by SEI and Wang Institute In contrast to the 1986 Workshop which was limited in attendance to 35 participants the 1987 Conference attracted approximately 180 participants      **Software Engineering in Higher Education II** J.-L. Usó,Peter Mitic,Lance J. Sucharov,1996 The 47 papers address not only the teaching of software engineering at the undergraduate and graduate levels but also the use of software in the engineering curriculum Among the educational issues discussed are object oriented design in power engineering education representing model classes in C a course on managing in the glazed tile industry and an expert teaching system for calculus studies Other topics include computer graphics for visualizing antenna radiation patterns spatial statistics selection software programming techniques for client server architectures and a first course in object oriented programming using Oberon Reproduced from typescripts No subject index Annotation copyright by Book News Inc Portland OR      **Software Engineering Education** B.Z. Barta,S.L. Hung,K.R. Cox,2013-10-22 Software engineering education is an important often controversial issue in the education of Information Technology professionals It is of concern at all levels of education whether undergraduate post graduate or during the working life of professionals in the field This publication gives perspectives from academic institutions industry and education bodies from many different countries Several papers provide actual curricula based on innovative ideas and modern programming paradigms Various aspects of project work as an important component of the educational process are also covered and the uses of software tools in the software industry and education are discussed The book provides a valuable source of information for all those interested and involved in software engineering education      *Professional Issues in Software Engineering* Frank Bott,Allison Coleman,Jack Eaton,Diane Rowland,2000-09-21 Nowadays software engineers not only have to worry about the technical knowledge needed to do their job but they are increasingly having to know about the legal professional and commercial

context in which they must work With the explosion of the Internet and major changes to the field with the introduction of the new Data Protection Act and the legal status of software engineers it is now essential that they have an appreciation of a wide variety of issues outside the technical Equally valuable to both students and practitioners it brings together the expertise and experience of leading academics in software engineering law industrial relations and health and safety explaining the central principles and issues in each field and shows how they apply to software engineering     The Responsible Software Engineer Colin Myers,Tracy Hall,Dave Pitt,2012-12-06 You might expect that a person invited to contribute a foreword to a book on the 1 subject of professionalism would himself be a professional of exemplary standing I am gladdened by that thought but also disquieted The disquieting part of it is that if I am a professional I must be a professional something but what As someone who has tried his best for the last thirty years to avoid doing anything twice I lack one of the most important characteristics of a professional the dedicated and persistent pursuit of a single direction For the purposes of this foreword it would be handy if I could think of myself as a professional abstractor That would allow me to offer up a few useful abstractions about professionalism patterns that might illuminate the essays that follow I shall try to do this by proposing three successively more complex models of professionalism ending up with one that is discomfortingly soft but still the best approximation I can make of what the word means to me The first of these models I shall designate Model Zero I intend a pejorative sense to this name since the attitude represented by Model Zero is retrograde and offensive but nonetheless common In this model the word professionalism is a simple surrogate for compliant uniformity     Software Engineering in Higher Education G. King,1994     Proceedings of the Eighth International Symposium on Human Aspects of Information Security & Assurance (HAISA 2014) Nathan Clarke,Steven Furnell,2014 The Human Aspects of Information Security and Assurance HAISA symposium specifically addresses information security issues that relate to people It concerns the methods that inform and guide users understanding of security and the technologies that can benefit and support them in achieving protection This book represents the proceedings from the 2014 event which was held in Plymouth UK A total of 20 reviewed papers are included spanning a range of topics including the communication of risks to end users user centred security in system development and technology impacts upon personal privacy All of the papers were subject to double blind peer review with each being reviewed by at least two members of the international programme committee     Hispanic Engineer & IT ,1997 Hispanic Engineer Information Technology is a publication devoted to science and technology and to promoting opportunities in those fields for Hispanic Americans     **Software Reliability** Beverley Littlewood,1987     **Software Engineering Metrics: Measures and validations** Martin Shepperd,1993 A compendium of articles by the world s leading authorities on software metrics Topics range from design specification and validation to more advanced topics such as automated measurement systems     *Proceedings* ,2003     **Databases for Software Engineering** C. Godart,F. Charoy,1994 The increasing demand for software shows an important lack in production capacity and the need to

improve the productivity of developers This book outlines a system for managing the objects produced and transformed during software development their storage access description and interactions      *The British National Bibliography* Arthur James Wells,1998      Pakistan & Gulf Economist ,2000-11      *Professional Awareness in Software Engineering* Colin Myers,1995 This collection of papers addresses the growing concern that software engineers should be aware of their professional environment It bridges the gap between the technical requirements of the software engineer and the broader issues of professionalism in industry Covering relevant professional and quality issues these papers have been written by experts in the field and aim to stimulate further discussion and thought      Education Guide Malaysia ,1993

**Proceedings of the ACM SIGSOFT '89 Third Symposium on Software Testing, Analysis, and Verification** Richard A. Kemmerer,1989      **American Book Publishing Record** ,1997      Software Engineering Process with the UPEDU Pierre N. Robillard,Patrick D'Astous,Philippe Kruchten,2003 This book provides a general introduction to the essentials of the software development process that series of activities that facilitate developing better software in less time It starts with the basic aspects of software process which are the methods tools and the concepts of the software life cycle The second and third parts emphasize the engineering and management disciplines that are the core of any software engineering process The fourth part which is concerned with the quality aspects of software process presents the aspects of process assessment and measurement The last chapter introduces a software process metamodel which is the theoretical foundation for any software process The approach is general and the explanations are not tied to a particular commercial process The book includes an ongoing case study example which does use the Unified Process for Education which is derived from The Rational Unified Process This book thus enables readers to gain experience with some of the basics of the Rational Unified Process the industry s most powerful tool for incorporating the best practices into software development and prepares them to work with any organization s software process The book includes a robust Website with all the sample deliverables and artifacts created from the case study as well as chapter by chapter sections with further up to date readings on process advancements the PDF files for all the figures in the book links to Software Engineering news sites chapter by chapter information on commercial tools industry standards etc      **Software Quality Management II** M. Ross,1994 This volume covers approaches to quality approaches to systems development testing and validation object oriented systems development formal methods software tools expert systems and software maintenance and re use

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